

The invention claimed is:

1. A method for demagnetizing objects between two coils lying opposite one another, wherein the object is located within the region between the two coils within an alternating field for a staying time of a certain duration, and wherein the coils form a single series oscillation circuit which are supplied in a current controlled manner.
2. A method according to claim 1, wherein the staying time over the duration of the cycle lasts between 20 and 500 periods.
3. A method according to claim 1, wherein two coils are grouped together into one single common coil, and wherein the alternating field is produced within the coil.
4. A method according to claim 2, wherein the alternating field of the series oscillation circuit is reduced down from a nominal current to an end current by way of a control or a ramp function which are programmed in the inverter.
5. A method according to claim 2, wherein the alternating field of the series oscillation circuit is reduced down by way of a separate current control external of the inverter along a programmable ramp function from a nominal current to an end current.
6. A method according to claim 5, wherein the demagnetization curve is influenced by additional supply of the series oscillation circuit by way of feeding with rectangular impulses by the separate current control.
7. A method according to claim 4, wherein after completion of the demagnetization procedure, the series oscillation circuit is made voltageless, currentless and chargeless by way of a zero point correction.

8. A method according to claim 5, wherein after completion of the demagnetization procedure, the series oscillation circuit is made voltageless, currentless and chargeless by way of a zero point correction.

9. A device for demagnetizing objects with a demagnetization station which comprises two coils which are present and which are arranged on opposite sides of a transport belt lying opposite one another, wherein the two coils are coreless and are connected in a single common series oscillation circuit and supplied by way of a current control for producing an alternating field, and wherein the series oscillation circuit and the transport belt are operated in a cycled manner so that an object transported on the transport belt remains within an alternating field between the coils of the series oscillation circuit for a certain staying time.

10. A device according to claim 9, wherein the two coils are grouped together into a single common coil, and wherein the alternating field is produced in the inside of the common coil.

11. A device according to claim 9, wherein in the transport direction of the transport belt there is present at least one pre-treatment station for demagnetizing magnetically hard locations in the object.

12. A device according to claim 9, wherein the transport of the objects on the transport belt is effected in a cycled manner.

13. A device according to claim 12, wherein the transport of the objects on the transport belt effected in a cycled manner is performed in a start-stop way

14. A device according to claim 9, wherein it is used for carrying out the method according to one of the claims 1 to 6.